

BCIP Comments for UPSTO Patent Eligibility Jurisprudence Study
Section I—Observations and Experiences

Botos Churchill IP Law is a boutique Intellectual Property Law Firm located in New Providence, New Jersey.

1. Please explain how the current state of patent eligibility jurisprudence affects the conduct of business in your technology area(s). Please identify the technology area(s) in your response.

The current state of eligibility practice affects our practice by making it extremely expensive for clients to pursue IP Protection due to highly complicated office actions, more office actions and greater pendency and lower allowance rates. This makes our clients reluctant to file for IP Protection in certain fields such as life sciences and software. This has an especially acute effect on medical diagnostic devices where software serves to provide new and medically beneficial methods of diagnosing/identifying medical issues. In those areas clients are favoring a hold over their information as a trade secret if it is difficult to reverse-engineer. Thus, subject matter eligibility has become the antithesis of what the patent system was designed to achieve, the release of technology into the public in exchange for the limited exclusivity afforded by a duly issued patent. It also serves as a disincentive to develop such technologies since costs of development and testing are less likely to be recovered where protection of those developments cannot be obtained. Moreover, a disincentive to such diagnostic development then similarly suggests a disincentive to improving public health.

2. Please explain what impacts, if any, you have experienced as a result of the current state of patent eligibility jurisprudence in the United States. Please include impacts on as many of the following areas as you can, identifying concrete examples and supporting facts when possible:

- a. patent prosecution strategy and portfolio management;
- b. patent enforcement and litigation;
- c. patent counseling and opinions;
- d. research and development;
- e. employment;
- f. procurement;

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- g. marketing;
- h. ability to obtain financing from investors or financial institutions;
- i. investment strategy;
- j. licensing of patents and patent applications;
- k. product development;
- l. sales, including downstream and upstream sales;
- m. innovation; and
- n. competition.

With regard to question 2(a), the tension between various inconsistent decisions by the Supreme Court, the Federal Circuit and various district courts, as well as the attempts to follow the logic of those decisions, has adversely impacted patent examination quality and consistency at the USPTO. Different Group Art Units, as well as examiners within an individual GAU, have vastly different interpretations as to what technology is properly eligible under the law. In addition, the recitation of boilerplate language used in stock rejections under 35 U.S.C. § 101 often fail to follow current USPTO guidelines (e.g., the April 19, 2018 “Berkheimer” memo and the December 20, 2018 memo re “2019 Revised Patent Subject Matter Eligibility Guidance”). Generally, the examiners have also ignored the patentable examples in the “Subject Matter Eligibility Examples: Abstract Ideas” documents circulated by the USPTO.

All of this has created uncertainty with applicants and patent practitioners. In an effort to predict what examiners will do in 1-3 years when they pick up a new case for examination, practitioners may include in the specification additional information about the benefits and applicability of the technology. Prophetic examples may also be helpful to underscore the differences between the technology and the known prior art. Furthermore, during prosecution it is often necessary to spend additional time explaining why the § 101 rejection fails to comply with the statute and current USPTO guidance.

For instance, it has been noted that examiners in GAU 3620 may generally assert ineligibility with unduly broad rejections founded in “methods of organizing human activity”. Usually, it is

necessary to cite to the Manual of Patent Examining Procedure (MPEP), such as MPEP § 2106.04(a)(2)(II), which makes clear that “not all methods of organizing human activity are abstract ideas”, and that “this grouping is limited to activity that falls within the enumerated sub-groupings”. In contrast, examiners in GAU 2190 may instead assert ineligibility with reliance on a vague “mental processes” rejection. Here, it is typically necessary to explain in a response that claims “do not recite a mental process when they do not contain limitations that can practically be performed in the human mind, for instance when the human mind is not equipped to perform the claim limitations” per MPEP § 2106.04(a)(2)(III)(A).

Additionally, the “mental process” evaluation as applied, is an inappropriately out-of-context framework for evaluating claims such as when involving software in diagnostic devices with sensors and processors. Such an evaluation should not be permitted to ignore the reality of the technical structure in which they are claimed. Moreover, the evaluation conflicts with the draftsman’s need to provide a humanly understandable description in written language. Indeed, technology is designed in the minds of humans and should be understandable in the mind. Nevertheless, understandable claims are too readily and simply characterized as mental processes because the technical context in which they are claimed can be simply ignored.

An example of a technologically founded claim held to be novel and inventive but abstract under §101 in such an out-of-context fashion can be considered in Appeal 2017-004809. The rejected claim is clearly directed to specific and useful technological device but was nevertheless deemed not patentable under §101.

1. A snoring detection device comprising:
 - a sensor configured to detect sounds during a breathing cycle; and a processor configured to:
 - detect a noise level during an inspiration phase of the breathing cycle with said sensor;
 - detect a noise level during an expiration phase of the breathing cycle with said sensor;
 - determine an occurrence of a snore based on a difference in the noise levels detected during inspiration and expiration, the difference comprising a subtraction of the noise level during expiration from the noise level during inspiration.

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It is inexplicable how the eligibility evaluation process under §101 has abandoned all reasonable perspective such that the above claim was held to not be a “new and useful process, machine, manufacture, or composition of matter.”

From client counseling and portfolio management perspectives, it has been found helpful to recommend to clients to conduct examiner interviews with both the examiner and their supervisor, no matter how experienced the examiner is. This allows practitioners to hear multiple perspectives from the examiners. This is particularly helpful since it has been found that examiners and their SPEs often do not have equivalent understandings of patent eligibility requirements. Supervisors will often make suggestions for minor tweaks to the claims to address purported eligibility issues, and these suggestions can be applied to other cases in the portfolio.

Such approaches can increase the length and complexity of the specification and/or responses to Office Action, which may increase cost to applicants. Additional rounds of prosecution have been experienced, which also drives up cost and delays protection. Applicants may also be forced to appeal when no agreement with the examiner can be reached, in the hope that the PTAB panel that eventually hears the appeal will have a more complete understanding of current patent eligibility jurisprudence.

3. Please explain how the current state of patent eligibility jurisprudence in the United States impacts particular technological fields, including investment and innovation in any of the following technological areas:

- a. quantum computing;
- b. artificial intelligence;
- c. precision medicine;
- d. diagnostic methods;
- e. pharmaceutical treatments; and
- f. other computer-related inventions (e.g., software, business methods, computer security, databases and data structures, computer networking, and graphical user interfaces).

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also many situations where the mere reporting of such a detection is useful. For example, a user may not even realize that he or she has a sleeping disorder. Therefore, technology capable of enabling, for example, a cell phone to provide a user with an indication that he or she may have a sleeping disorder is extremely useful and may encourage that user to seek necessary treatment. Unfortunately, due to the limited number of outputs available to cell phones, some examiners are unwilling to allow such claims. This leads to a scenario where a client may only be able to secure patent protection for a small number of the possible applications of the technology they developed. In some cases, this limited coverage may be enough to justify the filing or the continued pursuit of a patent application. In other cases, a client may abandon the patent application or forgo the filing of a patent application altogether.

4. Please explain how your experiences with the application of subject matter eligibility requirements in other jurisdictions, including China, Japan, Korea, and Europe, differ from your experiences in the United States.

The rules are more consistently applied in other countries and they are not filled with vague standards like “substantially more” or “significant part” which can be used and applied by Examiner’s with no guidance or standard for their application. The standard is really whatever the Examiner thinks the standard is. There is no required analysis for an Examiner to establish that something is or is not “substantially more.”

5. Please identify instances where you have been denied patent protection for an invention in the United States solely on the basis of patent subject matter ineligibility, but obtained protection for the same invention in a foreign jurisdiction, or vice versa. Please provide specific examples, such as the technology(ies) and jurisdiction(s) involved, and the reason the invention was held ineligible in the United States or other jurisdiction.

We have many examples where we were able to secure intellectual property protection for earlier patents only to be denied later patents under 101. One such example is US Patent No. 8,660,854 which we were able to secure for our client back in 2014. However, claims quite similar

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be more deferential on the eligibility question if what is claimed offers a real improvement in the art.

Respectfully submitted,

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